

Claims:

1. A facial bone contouring device using a hollowed rasp provided with non-plugging holes formed through a cutting plane, comprising:

5 a rasp including a rod, and a cutter provided with a plurality of grooves for exhausting cut bone fragments, a saline solution feeding passage and a bone fragment exhausting passage formed in the cutter;

a powered surgical handpiece connected to the rasp for providing linear reciprocating motion to the rasp;

10 a saline solution feeding unit for feeding saline solution to the saline solution feeding passage of the rasp; and

a suction unit for sucking the cut bone fragments from the rasp via the bone fragment exhausting passage and then exhausting the cut bone fragments to the outside,

15 wherein bone cutting is performed under the condition that the saline solution is fed into the rasp, and the cut bone fragments are exhausted to the outside together with the saline solution, so that the bone cutting is continuously performed.

2. The facial bone contouring device using a hollowed rasp provided with non-plugging holes formed through a cutting plane, as set forth in claim 1,

20 wherein a bone fragment collector is connected to the suction unit.

3. The facial bone contouring device using a hollowed rasp provided with non-plugging holes formed through a cutting plane, as set forth in claim 1,

wherein the rasp further includes:

25 a connector formed on one end of the rod having a cylindrical shape and connected to an adaptor of the powered surgical handpiece; and

a cutter, formed on the other end of the rod, having a cutting blade formed at a lower portion of the cutter, a cavity formed in the cutter, and a plurality of grooves connecting the cavity to the cutting blade; and

30 wherein the saline solution feeding passage and the bone fragment exhausting passage formed in the cutter are extended to the outside of the cutter.

4. The facial bone contouring device using a hollowed rasp provided with

non-plugging holes formed through a cutting plane, as set forth in claim 3,
wherein the saline solution feeding passage and the bone fragment
exhausting passage are formed in the rod.

5 5. The facial bone contouring device using a hollowed rasp provided with
non-plugging holes formed through a cutting plane, as set forth in claim 1,
wherein the saline solution feeding passage is formed in the rod, and the
bone fragment exhausting passage is formed by connecting the cavity in the cutter
to an external connection jack protruding from the cutter via a hole formed through
the cutter.

10 6. The facial bone contouring device using a hollowed rasp provided with
non-plugging holes formed through a cutting plane, as set forth in claim 1, further
comprising a protector, formed to have a cylindrical shape, surrounding the entire
surface of the rod and a part of the cutter of the rasp.

15 7. The facial bone contouring device using a hollowed rasp provided with
non-plugging holes formed through a cutting plane, as set forth in claim 1,
wherein:
a bending portion is formed at a designated portion of the rod; and
a cylindrical protector, formed to have a cylindrical shape so as to
surround the rod and a part of the cutter of the rasp, has a double tube structure so
20 that the saline solution feeding passage is formed between two tubes, and is bent at
a designated angle.